



Seqlist.ST25.txt
SEQUENCE LISTING

<110> Meristem Therapuetics

<120> Chimeric expression promoters originating from commelina yellow mottle virus
and cassava vein mosaic virus

<130> 184332042

<140> 09/963803

<141> 2001-09-26

<150> FR 99/03925

<151> 1999-03-29

<150> PCT IB00/00370

<151> 2000-10-05

<160> 39

<170> PatentIn version 3.1

<210> 1

<211> 243

<212> DNA

<213> Artificial sequence

<220>

<223> 243 bp Fragment from the intergenic region of commelina yellow mo
ttle virus

<220>

<221> promoter

<222> (1)..(243)



Seqlist.ST25.txt

<223>

<400> 1
atccgccgtc atcaatgaca tcatcacagt actgaggaga tgaatactta gccatgaagt 60
agcgtgcgaa tattacctat gcctttattc gcagcgtag tggcactgaa aggcataaag 120
tttgttcgtt cttatcaaaa acgaatctta tctttgtaac ttggttaccg ggtatgccgg 180
ttcccaagct ttatttcctt atttaagcac ttgtgtagta gcttagaaaa ccaacacaac 240
aac 243

<210> 2

<211> 515

<212> DNA

<213> Artificial Sequence

<220>

<223> Promoter from the intergenic region of Cassava Vein Mosaic virus
of 515 bp in length EMBL

<220>

<221> promoter

<222> (1)..(515)

<223>

<400> 2
ccagaaggta attatccaag atgtagcatc aagaatccaa tgtttacggg aaaaactatg 60
gaagtattat gtgagctcag caagaagcag atcaatatgc ggcacatatg caacctatgt 120
tcaaaaatga agaattgtaca gatacaagat cctatactgc cagaatacga agaagaatac 180
gtagaaattg aaaaagaaga accaggcgaa gaaaagaatc ttgaagacgt aagcactgac 240
gacaacaatg aaaagaagaa gataagggtcg gtgattgtga aagagacata gaggacacat 300
gtaagggtga aaatgtaagg gcggaaagta accttatcac aaaggaatct tatccccac 360
tactttatcct ttttatatctt tccgtgtcat ttttgccctt gagttttcct atataaggaa 420
ccaagtccgg catttgtaga aacaagaaaa aatttggtgt aagctatctt ctttgaagta 480
ctgaggatag aacttcagag aaatttgtaa gtttg 515

<210> 3

Seqlist.ST25.txt

<211> 317
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Promoter MPr1116
 <220>
 <221> promoter
 <222> (1)..(317)
 <223>

<400> 3	
aagcttgcat gctgcagact agtatccgcc gtcataatg acatcatcac agtactgagg	60
agatgaatag ctagccatga cactctgtgc gaatattgaa gacgtaagca ctgacgacaa	120
caatgaaaag aagaagataa ggatcggtgat tgtgaaagag acatagagga cacatgtaag	180
gtggaaaatg taagggcgga aagtaacctt atgcatttgt aacttggtta cccggtatgc	240
cggttcccaa gctttatttc cttatttaag cacttgtgta gtagcttaga aaaccaacac	300
aacaacctag aggatcc	317

<210> 4
 <211> 348
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> promoter MPr1117
 <220>
 <221> promoter
 <222> (1)..(348)
 <223>

<400> 4	
aagcttgcat gcctgcagac tagtatccgc cgatcatcaat gacatcatca gactagtatc	60

Seqlist.ST25.txt

cgccgtcatc aatgacatca tcacagtact gaggagatga atagctagcc atgacactct	120
gtgcgaatat tgaagacgta agcactgacg acaacaatga aaagaagaag ataaggtcgg	180
tgattgtgaa gagacataga ggacacatgt aagggtggaaa atgtaagggc ggaaagtaac	240
cttatgcatt tgtaacttgg ttacccggta tgctggttcc caagctttat ttccttattt	300
aaacttgtgt agtagcttag aaaaccaaca caacaaccta gaggatcc	348

<210> 5

<211> 371

<212> DNA

<213> Artificial Sequence

<220>

<223> promoter MPr1146

<220>

<221> promoter

<222> (1)..(371)

<223>

<400> 5	
aagcttgcac gctgcagact agtatccgcc gtcacatcatg acatcatcac agtactgagg	60
agatgaatag ctagtgtattg atgtgatatc aagattgatg tgatatctcc actgacgtaa	120
gggatgacgc atgccactct gtgcgaatat tgaagacgta agcactgacg acaacaatga	180
aaagaagaag ataaggtcgg tgattgtgaa agagacatag aggacacatg taagggtggaa	240
aatgtaaggg cggaagtaa ctttatgcac ttgtaacttg gttacccggt atgccggttc	300
ccaagcttta tttccttatt taagcacttg tgtagtagct tagaaaacca acacaacaac	360
ctagaggatc c	371

<210> 6

<211> 398

<212> DNA

<213> Artificial Sequence

<220>

Seqlist.ST25.txt

<223> promoter MPr1147

<220>

<221> promoter

<222> (1)..(398)

<223>

<400> 6

aagcttgc	at	gcctgcagac	tagtatccgc	cg	tc	catcaat	gacatcatca	gactag	tatc	60
cgccgtc	atc	aatgacatca	tcacagtact	gaggagatga	atagctagcc	tgcagactag	120			
tggattg	atg	tgatatctcc	actgacgtaa	gggatgacgc	atgccactct	gtgcgaatat	180			
tgaagac	gta	agcactgacg	acaacaatga	aaagaagaag	ataagg	tcgg	tgattgtgaa	240		
gagacata	ga	ggacacatgt	aagg	tgga	aaa	atgtaagggc	ggaaagtaac	cttatgcatt	300	
tgtaact	tgg	ttacccggt	a	tgctggttcc	caagctttat	ttccttattt	aaactt	gtgt	360	
agtagct	tag	aaaaccaaca	caacaaccta	gaggatcc	398					

<210> 7

<211> 301

<212> DNA

<213> Artificial Sequence

<220>

<223> promoter MPr1154

<220>

<221> promoter

<222> (1)..(301)

<223>

<400> 7

aagcttgc	at	gcctgcagac	tagtggattg	atgtgatatc	tccactgacg	taagggatga	60
cgc	atgccac	tctgtgcgaa	tattgaagac	gtaagcactg	acgacaacaa	tgaaaagaag	120
aagataagg	t	cgg	tgattgt	gaagagacat	agaggacaca	tgtaagg	180
ggcggaag	t	aac	ttatgc	atttgtaact	tggttacc	cg	240
tatttcctta	ttta	aacttg	tgtagtagct	tagaaaacca	acacaacaac	ctagaggatc	300

c 301

<210> 8

<211> 65

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional desoxynucleotide building block

S1

<400> 8

catgctgcag actagtatcc gccgtcatca atgacatcat cacagtactg aggagatgaa 60

tagct 65

<210> 9

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional desoxynucleotide building block

S2

<400> 9

agccatgaca ctctgtgcga atattgaaga cgtaagcact gacgacaaca atgaaaagaa 60

<210> 10

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional desoxynucleotide building block

S3

Seqlist.ST25.txt

<400> 10
gaagataagg tcggtgattg tgaaagagac atagaggaca catgtaaggt ggaaaatgta 60
ag 62

<210> 11

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional desoxynucleotide building block

S4

<400> 11
ggcggaaagt aaccttatgc atttgtaact tggttaccg gtatgccggt tcccaagctt 60
tat 63

<210> 12

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional desoxynucleotide building block

S5

<400> 12
ttccttattt aagcacttgt gtagtagctt agaaaaccaa cacaacaacc tagaggatcc 60
ccg 63

<210> 13

<211> 63

<212> DNA

<213> Artificial Sequence

Seqlist.ST25.txt

<220>

<223> Directional desoxynucleotide building block

S6

<400> 13

catgctgcag actagtggat tgatgtgata tctccactga cgtaagggat gacgcatgcc 60

act 63

<210> 14

<211> 79

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional desoxynucleotide building block

S7

<400> 14

catgctgcag actagtgatt gatgtgatat caagattgat gtgatatctc cactgacgta 60

agggatgacg catgccact 79

<210> 15

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Guide desoxynucleotide building

block G1

<400> 15

gactcctcta cttatcgatc ggtactgtga gaca 34

<210> 16

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Guide desoxynucleotide building
block G2

<400> 16
gctgttgta cttttcttct tctattccag cca

33

<210> 17

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Guide desoxynucleotide building
block G3

<400> 17
attccacctt ttacattccc gcctttcatt g

31

<210> 18

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Guide desoxynucleotide building
block G4

<400> 18
caagggttcg aaataaagga ataaattcgt ga

32

<210> 19

<211> 393

<212> DNA

Seqlist.ST25.txt

<213> Artificial Sequence

<220>

<223> promoter MPr1162

<220>

<221> promoter

<222> (1)..(393)

<223>

<400> 19

aagcttgcat gcctgcagca ctagtatccg ccgcatcaa tgacatcatc acagtactga	60
ggagatgaat agctagccat gacactctgt gcgaatattg aagacgtaag cactgacgac	120
aacaatgaaa agaagaagat aaggctcggg attgtgaaag agacatagag gacacatgta	180
aggtggaaaa tgtaagggcg gaaagtaacc ttatgcattt gtaatttggt tacgactagt	240
gattgatgtg atatcaagat tgatgtgata tctccactga cgtaagggat gacgcatgcc	300
acgttaccg gtatgccggg tcccaagctt tatttcctta tttaagcact tgtgtagtag	360
cttagaaaac caacacaaca acctagagga tcc	393

<210> 20

<211> 462

<212> DNA

<213> Artificial Sequence

<220>

<223> promoter MPr1163

<220>

<221> promoter

<222> (1)..(462)

<223>

<400> 20

aagcttgcat gcctgcagca ctagtatccg ccgcatcaa tgacatcatc acagtactga	60
ggagatgaat agctagccat gacactctgt gcgaatattg aagacgtaag cactgacgac	120

Seqlist.ST25.txt

aacaatgaaa agaagaagat aagggtcgggtg attgtgaaag agacatagag gacacatgta	180
aggtggaaaa tgtaagggcg gaaagtaacc ttatgcattt gtaatttggt tacgactagt	240
gattgatgtg atatcaagat tgatgtgata tctccactga cgtaagggtat gacgcatgcc	300
acgactagtg attgatgtga tatcaagatt gatgtgatat ctccactgac gtaagggtatg	360
acgcatgcca cgttacccgg tatgccggtt cccaagcttt atttccttat ttaagcactt	420
gtgtagtagc ttagaaaacc aacacaacaa cctagaggat cc	462

<210> 21

<211> 392

<212> DNA

<213> Artificial Sequence

<220>

<223> promoter MPr1164

<220>

<221> promoter

<222> (1)..(392)

<223>

<400> 21	
aagcttgcac gcctgcagca ctagtatccg ccgtcatcaa tgacatcatc acagtactga	60
ggagatgaat agctagccat gacactctgt gcgaatattg aagacgtaag cactgacgac	120
aacaatgaaa agaagaagat aagggtcgggtg attgtgaaag agacatagag gacacatgta	180
aggtggaaaa tgtaagggcg gaaagtaacc ttatgcattt gtaatttggt tacgtggcat	240
gcgtcatccc ttacgtcagt ggagatatca catcaatctt gatatcacat caatcactag	300
tcgttacccg gtatgccggt tccaagctt tatttcctta ttaagcact tgtgtagtag	360
cttagaaaac caacacaaca actagaggat cc	392

<210> 22

<211> 600

<212> DNA

<213> Artificial Sequence

Seqlist.ST25.txt

<220>

<223> promoter MPr1165

<220>

<221> promoter

<222> (1)..(600)

<223>

<400> 22

aagcttgcat gcctgcagca ctagtatccg ccgtcatcaa tgacatcatc acagtactga	60
ggagatgaat agctagccat gacactctgt gcgaatattg aagacgtaag cactgacgac	120
aacaatgaaa agaagaagat aaggtcggtg atttgtgaaag agacatagag gacacatgta	180
aggtggaaaa tgtaagggcg gaaagtaacc ttatgcattt gtaatttggt tacgactagt	240
gattgatgtg atatcaagat tgatgtgata tctccactga cgtaagggat gacgcatgcc	300
acgactagtg attgatgtga tatcaagatt gatgtgatat ctccactgac gtaagggatg	360
acgcatgcca cgactagtga ttgatgtgat atcaagattg atgtgatatc tccactgacg	420
taagggatga cgcatgccac gactagtgat tgatgtgata tcaagattga tgtgatatct	480
ccactgacgt aagggatgac gcatgccacg ttaccggtta tgccggttcc caagctttat	540
ttccttattt aagcacttgt gtagtagctt agaaaaccaa cacaacaacc tagaggatcc	600

<210> 23

<211> 604

<212> DNA

<213> Artificial Sequence

<220>

<223> promoter MPr1167

<220>

<221> promoter

<222> (1)..(604)

<223>

<400> 23

aagcttgcat gcctgcagac tagtatccgc cgatcatcaat gacatcatca gactagtatc	60
--	----

Seq1ist.ST25.txt

cgccgcatc aatgacatca tcacagtact gaggagatga atagctagtc tgcagactag	120
tggattgatg tgatatctcc actgacgtaa gggatgacgc atgccactct gtgcgaatat	180
tgaagacgta agcactgacg acaacaatga aaagaagaag ataaggtcgg tgattgtgaa	240
gagacataga ggacacatgt aagggtgaaa atgtaagggc ggaaagtaac cttatgcatt	300
tgtaacttgg ttacctagtg attgatgtga tatcaagatt gatgtgatat ctccactgac	360
gtaagggatg acgcatgcca cctagtgtatt gatgtgatat caagattgat gtgatatctc	420
cactgacgta agggatgacg catgccacct agtgattgat gtgatatcaa gattgatgtg	480
atatctccac tgacgtaagg gatgacgcat gccacgttac ccggtatgct gggtcccaag	540
ctttatttcc ttatttaaac ttgtgtagta gcttagaaaa ccaacacaac aacctagagg	600
atcc	604

<210> 24

<211> 541

<212> DNA

<213> Artificial Sequence

<220>

<223> promoter MPr1168

<220>

<221> promoter

<222> (1)..(541)

<223>

<400> 24

aagcttgcac gcctgcagac tagtatccgc cgatcatcaat gacatcatca gactagtatc	60
cgccgcatc aatgacatca tcacagtact gaggagatga atagctagtc tgcagactag	120
tggattgatg tgatatctcc actgacgtaa gggatgacgc atgccactct gtgcgaatat	180
tgaagacgta agcactgacg acaacaatga aaagaagaag ataaggtcgg tgattgtgaa	240
gagacataga ggacacatgt aagggtgaaa atgtaagggc ggaaagtaac cttatgcatt	300
tgtaacttgg ttacgactag tgattgatgt gatatcaaga ttgatgtgat atctccactg	360
acgtaagggg tgacgcatgc cagcactagt gattgatgtg atatcaagat tgatgtgata	420
tctccactga cgtaagggat gacgcatgcc acgttaccgc gtatgctggt tcccaagctt	480

SeqList.ST25.txt

tatttcctta tttaaacttg tgtagtagct tagaaaacca acacaacaac ctagaggatc 540

c 541

<210> 25

<211> 472

<212> DNA

<213> Artificial Sequence

<220>

<223> promoter MPr1169

<220>

<221> promoter

<222> (1)..(472)

<223>

<400> 25

aagcttgcat gcctgcagac tagtatccgc cgatcatcaat gacatcatca gactagtatc 60

cgccgcatc aatgacatca tcacagtact gaggagatga atagctagtc tgcagactag 120

tggattgatg tgatatctcc actgacgtaa gggatgacgc atgccactct gtgcgaatat 180

tgaagacgta agcactgacg acaacaatga aaagaagaag ataaggctcg tgattgtgaa 240

gagacataga ggacacatgt aagggtggaaa atgtaagggc ggaaagtaac cttatgcatt 300

tgtaacttgg ttacgactag tgattgatgt gatatcaaga ttgatgtgat atctccactg 360

acgtaaggga tgacgcatgc cacgttacc ggtatgctgg ttcccaagct ttatttcctt 420

atttaaactt gtgtagtagc ttagaaaacc aacacaacaa cctagaggat cc 472

<210> 26

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide probe

<400> 26

catgctgcag actagtatcc

20

seqlist.ST25.txt

<210> 27

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide probe

<400> 27

cggggacccct ctaggttgt

19

<210> 28

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> deoxynucleotide primer

<400> 28

ttgatttcac ggggttggg

18

<210> 29

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> oligodeoxynucleotide primer

<400> 29

catgctgcag actagtggat t

21

<210> 30

<211> 20

<212> DNA

<213> Artificial Sequence

Seqlist.ST25.txt

<220>

<223> oligonucleotide primer

<400> 30

cggggacccct ctaggtttct

20

<210> 31

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Deoxynucleotide primer

<400> 31

atttaggtga cactatag

18

<210> 32

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide primer

<400> 32

taaatccact gtgatatctt atg

23

<210> 33

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> deoxynucleotide primer

<400> 33

atatgagact ctaattggat accgagggg

29

Seqlist.ST25.txt

<210> 34

<211> 70

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional Desoxynucleotide

<400> 34

ttcccttcaa acacatacaa attcagtaga gaagaaactc attactcttg agaaacctag 60

aggatccccg 70

<210> 35

<211> 70

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional Desoxynucleotide

<400> 35

cacaaaaacc caatccacat ctttatcatc cattctataa aaaatcacct tctgtgtgtc 60

tctctttcga 70

<210> 36

<211> 72

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional Desoxynucleotide

<400> 36

ctgtggcaca tctacattat ctaaactctaa gccacgtcgg aggataacat attcttccac 60

acatcttagc ca 72

<210> 37

Seqlist.ST25.txt

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> directional oligodesoxynucleotides

<400> 37

tggtgttgaa gggaatcgaa agagagacac a

31

<210> 38

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> directional oligodesoxynucleotides

<400> 38

gattggggtt ttgtgtggct aagatgtgtg

30

<210> 39

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> directional oligodesoxynucleotides

<400> 39

tgtagatgtg ccacagagtg gcatgcgt

28